

November 23, 2015



U.S. Department
of Transportation

East Building, PHH-30
1200 New Jersey Avenue S.E.
Washington, D.C. 20590

**Pipeline and Hazardous
Materials Safety Administration**

DOT-SP 16015
FIRST REVISION

EXPIRATION DATE: April 30, 2016

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: GPI Corporation
Schofield, WI
2. PURPOSE AND LIMITATIONS:
 - a. This special permit authorizes the manufacture, mark, sale and use of non-DOT specification cargo tanks conforming to all regulations applicable to a DOT specification 407/412, except as specified herein, for the transportation in commerce of the materials authorized by this special permit. This special permit provides no relief from the Hazardous Materials Regulations (HMR) other than as specifically stated herein. The most recent revision supersedes all previous revisions.
 - b. The safety analyses performed in development of this special permit only considered the hazards and risks associated with transportation in commerce. The safety analyses did not consider the hazards and risks associated with consumer use, use as a component of a transport vehicle or other device, or other uses not associated with transportation in commerce.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR 49 CFR § 107.503(b) and (c) in that the manufacturer is not required to hold an ASME U stamp or National Board R stamp; §§ 173.241, 173.242 and 173.243, in that non-DOT specification packaging is not authorized, except as provided herein.

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5. BASIS: This special permit is based on the application of GPI Corporation dated October 12, 2013, submitted in accordance with § 107.105, the public proceeding thereon and PHMSHA's modification of the permit in accordance with § 107.121(c).

6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Hazardous Material Description			
Proper Shipping Name	Hazard Class/ Division	Identification Number	Packing Group
Hazardous materials authorized for transport in DOT 407 or 412 cargo tank motor vehicles	Various	Various	Various

7. SAFETY CONTROL MEASURES:

a. PACKAGING - The authorized packaging is a non-DOT specification glass fiber reinforced plastic (GFRP) cargo tank conforming with all regulations applicable to a DOT Specification 412/407, except as specified herein. Each tank must have a design pressure of 35 psig and a design margin of 4.0:1. Maximum tank capacity may not exceed 6400 US water gallons. Each tank must be designed and constructed in accordance with GPI Corporation drawings dated June 18, 2012 titled Tank Truck Project and with calculations and specifications on file with the Office of Hazardous Materials Safety's Approvals and Permits Division. Each tank must be in compliance with §§ 173.241, 173.242 or 173.243, as prescribed in the Hazardous Materials Table (§ 172.101), except that Special Provisions, B15 and B23 are waived. In addition, it must meet all requirements for a DOT-407 and DOT 412 specification cargo tank motor vehicle (§§ 178.347 and 178.348), except as follows:

(1) §§ 178.345-1, 178.347-1 and 178.348-1: Any references to ASME Code requirements do not apply.

(2) §§ 178.345-2 and 3; 178.347-2; and 178.348-2: Type of material, wall thickness and lining requirements do not apply. Tank shell, heads and fittings must be constructed of FRP in accordance with the data and documents on file with the Office of Hazardous Materials Safety's Approvals and Permits Division.

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Shell design must be based on extreme dynamic loadings in described in § 178.345-3(c) (2).

(3) § 178.345-4: Joint weld requirements do not apply.

(4) § 178.345-7: Circumferential reinforcement requirements do not apply.

(5) § 178.345-10(c): Pressure relief provisions for location do not apply.

(6) § 178.345-14: Specification plate and name plate requirements must be appropriately modified to reflect compliance with terms of this special permit. For example:

DOT NAME PLATE
CARGO TANK MANUFACTURED BY
GPI Corporation.
Schofield, WI, USA
DOT Reg. # CT-XXXX

CARGO TANK MFR. SERIAL #: -----
SPECIFICATION: DOT 407/412 SP-16015
ORIGINAL TEST DATE: -----
CARGO TANK MAWP: 35 (psig)
CARGO TANK TEST PRESSURE: 52.5 (psig)
CARGO TANK DESIGN TEMP. RANGE: -20°F to 180°F
NOMINAL WATER CAPACITY: -----
MAXIMUM LADING DENSITY: -----
SHELL MATERIAL: FRP/BALSA/FRP
MINIMUM SHELL THICKNESS: -----
HEAD MATERIAL: FRP
MINIMUM HEAD THICKNESS: -----
EXPOSED SURFACE AREA: -----

CARGO TANK PRESSURE VESSEL CONSTRUCTED IN ACCORDANCE WITH DOT SP-
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DOT SPECIFICATION PLATE
CARGO TANK MOTOR VEHICLE MANUFACTURED BY
GPI Corporation.
Schofield, WI, USA
DOT Reg. # CT-XXXX

SPECIFICATION: DOT 407/412 SP-16015
CARGO TANK MOTOR VEHICLE CERTIFICATION DATE: -----
CARGO TANK MFR.: -----
CARGO TANK DATE OF MFG: -----
CARGO TANK MFR. SERIAL #: -----
CARGO TANK MOTOR VEHICLE MFR. VIN: -----
MAXIMUM PAYLOAD: -----
MAXIMUM LOADING RATE: -----
MAXIMUM UNLOADING RATE: -----

(7) § 178.345-15 Certification: The manufacturer's certificate retained by the motor carrier shall reflect the cargo tank manufacturer and final assembly and/or CTMV and reflect compliance with the terms contained in the special permit.

(8) § 180.413: Any modification must be authorized in writing by the Office of Hazardous Materials Safety's Approvals and Permits Division. The manufacturer must be notified and authorize any repairs to the pressure vessel including lining. Repairs that affect the structural integrity of the design that involve replacement of structural layers beyond the liner shall be considered "structural" and must be performed by the manufacture. If total "structural" repair area is less than 2 sq. ft in total area the repair may be performed by an authorized service center approved by the manufacture following written procedures provided by the cargo tank manufacture.

b. OPERATIONAL CONTROLS -

(1) Tanks that are to be used in transporting Class 3 waste materials must be equipped with a spring loaded relief valve.

(2) The compatibility of commodities and the FRP cargo tank must be based on ASTM C 581 "Standard Test Method for Chemical Resistance of Thermosetting Resins Used in Fiberglass Reinforced Structures". Test reports must be maintained by the owner or manufacturer for as long as the cargo tank remains in active operation.

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c. TESTING -

(1) The FRP cargo tank motor vehicle shall meet all requirements for DOT 407/412 CTMV's except that references to the ASME Code do not apply. Qualification and maintenance shall meet all requirements for DOT 407/412 CTMV's in Subpart E of Part 180.

(2) Initial qualification testing must be in accordance with § 180.405, except that any references to ASME Code requirements do not apply. Periodic requalification must include a hydrostatic test and an annual inspection of lining, which must be performed as described in the manufacturer's application. In addition to those items required to be examined by the visual inspections specified in § 180.407(d) and (e), the visual inspections must include detection of cracks, gouges, debonding or delamination of any layers, and liner deterioration. Any cracks or contamination that are beyond the liner and extend into the structural layers will be considered structural repairs. Liner deterioration that includes significant "fiber bloom" or exposed glass fibers subject to chemical attack below the surface veil layers will be cause for repair. Linings on any tankers that are manufactured with conductivity should be spark tested according to the manufactures requirements.

d. The grantee of the special permit shall inform the Office of Hazardous Materials Safety, Approvals and Permits Division (OHMSAPD) of the person who is manufacturing the GFRP shells under the terms of the special permit. The grantee may not utilize a new person to manufacture the GFRP shells unless acknowledged in writing by OHMSAPD. Persons manufacturing the GFRP shells may be inspected by PHMSA or other government agencies to verify their capability to perform their manufacturing functions authorized under the terms of the special permit.

8. SPECIAL PROVISIONS:

a. In accordance with the provisions of Paragraph (b) of § 173.22a, persons may use the packaging authorized by this special permit for the transportation of the hazardous materials specified in paragraph 6, only in conformance with the terms of this special permit.

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- b. A person who is not a holder of this special permit, but receives a packaging covered by this special permit, may reoffer it for transportation provided no modification or change is made to the packaging and it is offered for transportation in conformance with this special permit and the HMR.
- c. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.
- d. Each packaging manufactured under the authority of this special permit must be either (1) marked with the name of the manufacturer and location (city and state) of the facility at which it is manufactured or (2) marked with a registration symbol designated by the Office of Hazardous Materials Special Permits and Approvals for a specific manufacturing facility.
- e. A current copy of this special permit must be maintained at each facility where the packaging is manufactured under this special permit. It must be made available to a DOT representative upon request.
9. MODES OF TRANSPORTATION AUTHORIZED: Motor Vehicle.
10. MODAL REQUIREMENTS: A current copy of this special permit must be carried aboard each motor vehicle used to transport packages covered by this special permit.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
 - o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
 - o Registration required by § 107.601 et seq., when applicable.

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Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)—"The Hazardous Materials Safety and Security Reauthorization Act of 2005" (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term "exemption" to "special permit" and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 Immediate notice of certain hazardous materials incidents, and 171.16 Detailed hazardous materials incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-30, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

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Copies of this special permit may be obtained by accessing the
Hazardous Materials Safety Homepage at

http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm

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